

## PATENT COOPERATION TREATY

From Japanese Patent Office

(INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY)

To: HAYASE, Kenichi  HAYASE & CO. 4F, THE SUMITOMO BUILDING No.2, 4-7-28, Kitahama, Chuo-ku, Osaka-shi, Osaka 541-0041 JAPAN	<p style="text-align: center;"><b>PCT</b></p> <p style="text-align: center;">WRITTEN OPINION OF THE IPEA (PCT Rule 66)</p> <hr/> Date of Mailing 22 November 2005
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Applicant's or agent's file reference P36047-PO	Term of Response Within two months from Date of Mailing	
International application No. PCT/JP2004/019324	International filing date 24 December 2004	Priority date 24 December 2003
International Patent Classification (IPC) or national classification and IPC Int. Cl. G03B21/00, G02B26/10		
Applicant Matsushita Electric Industrial Co., Ltd.		

1. <input checked="" type="checkbox"/> The written opinion established by ISA is <input checked="" type="checkbox"/> regarded as the opinion of IPEA.
2. This <u>2nd</u> opinion contains indications relating to the following items: I <input checked="" type="checkbox"/> Basis of the opinion II <input type="checkbox"/> Priority III <input type="checkbox"/> Non-establishment of report with regard to novelty, inventive step or industrial applicability IV <input type="checkbox"/> Lack of unity of invention V <input checked="" type="checkbox"/> Reasoned statement under Article 13 (PCT Rule 66.2(a)(ii)) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement VI <input type="checkbox"/> Certain documents cited VII <input type="checkbox"/> Certain defects in the international application VIII <input type="checkbox"/> Certain observations on the international application
3. The applicant is required to respond to this opinion.
OMISSION
4. According to PCT Rule 69.2, the final due date for completion of International Preliminary Report on Patentability (Chapter II of the Patent Cooperation Treaty) is: <u>02 May 2006</u> .

Name and mailing address of the IPEA/JIP Japanese Patent Office	Authorized officer  Telephone No.
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WRITTEN OPINION OF THE IPEA

International application No.  
PCT/JP2004/019324

I. Basis of the opinion

1. With regard to the language, this opinion is based on the following:

☒ The international application in the language in which it was filed

2. With regard to the elements of the international application, this opinion is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this opinion as "originally filed")*:

☒ The international application as originally filed/furnished

OMISSION (3,4)

## WRITTEN OPINION OF THE IPEA

International application No.  
PCT/JP2004/019324

V. Reasoned statement under Rule 13 (PCT Rule 66.2 (a)(ii)) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

## 1. STATEMENT

Novelty (N)	Claims 1-15	YES
	Claims NONE	NO
Inventive Step(IS)	Claims NONE	YES
	Claims 1-15	NO
Industrial Applicability (IA)	Claims 1-15	YES
	Claims NONE	NO

## 2. CITATIONS AND EXPLANATIONS

Document 1: JP 03-109591 A

Document 2: JP 2003-121791 A

## (1) Inventions relating to Claims 1-15

The invention described in the document 1 relates to a projector using a laser light source, which is able to reduce speckle noises without vibrating a screen.

In the reduction method described in the document 1, a polarization state modulator for temporally modulating the polarization state of laser light is disposed on the projector body side, and birefringent crystal particles are applied to the screen surface on the projection side, whereby the laser light is transmitted through the polarization state modulator and the birefringent crystal particles to reduce speckle noises.

On the other hand, in [0015] ~ [0019] of the document 2, there is described a method for reducing speckle noises by polarizing laser light in an appropriate orientation and then transmitting the laser light a birefringent material, i.e., a structure in which a birefringent material is disposed in series immediately behind a polarization element.

In the device described in the document 1, it is easily conceived to select a position immediately behind the polarization state modulator as a position where the birefringent crystal particles are disposed, and an effect obtained by this structure is also predictable.

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